



## ▶ LZR<sup>®</sup>-FLATSCAN SW

Dynamic safety sensor for low energy swing doors in healthcare environments



### Complete Door Leaf Coverage

Detection field extends the entire door width and height (up to 13' diagonally)



### Enhanced Safety

Generates 170 detection points across each side of the door including the hinge area



### LASER-based Technology

Capable of ignoring dynamic ground conditions (reflective flooring, pedi-mats, wet surfaces, etc.)



### Compact Design

Low-profile, compact design helps maintain aesthetics and reduces interference with door hardware

## ▽ EXCEEDING ANSI 156.19



### ACTIVATION

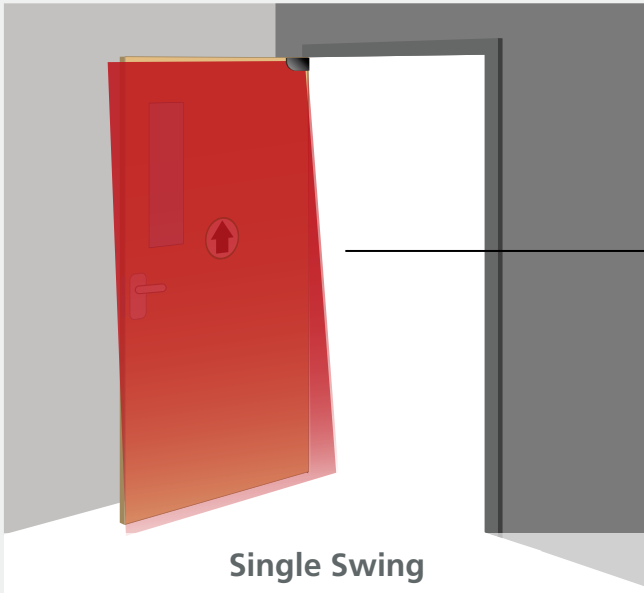
Push plate, touchless switch, or radio controls

### REACTIVATION

Complete door coverage with LZR-FLATSCAN SW LASER-based sensor



## ▽ LOW ENERGY DOOR APPLICATIONS

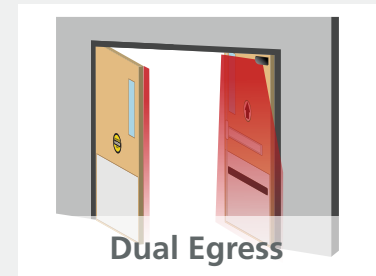


### REACTIVATION

LASER-based sensor (handed for door leaf)

### ENHANCED SAFETY

Detection field extends beyond the hinge area



## ▽ TECHNICAL SPECIFICATIONS

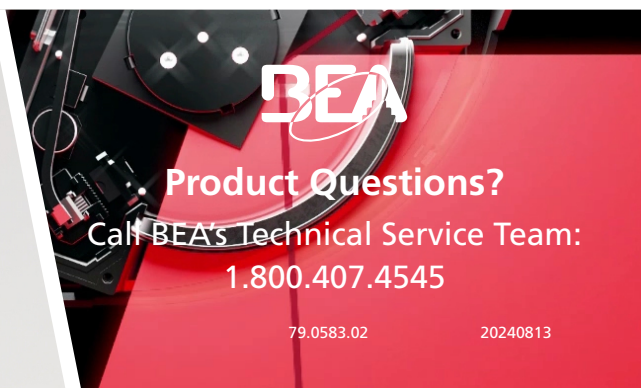
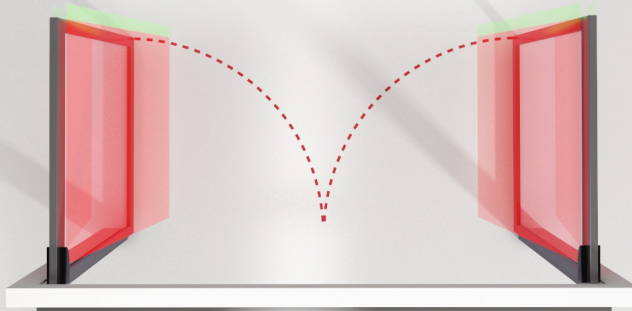
### TECHNOLOGY / PERFORMANCE

<b>Technology</b>	LASER scanner, time-of-flight measurement
<b>Detection mode</b>	Presence
<b>Max. detection range</b>	13' (diagonal) with reflectivity of 2% e.g. at 5' width, max. H = 12'
<b>Opening angle</b>	
door leaf safety	90°
pinch zone safety	16°
<b>Angular resolution</b>	
door leaf safety	1.3°
pinch zone safety	0.2°
<b>Tilt angles</b>	2 – 10° (without mounting bracket)
<b>Typ. min. object size</b>	
door leaf safety	4" @ 13' (in proportion to object distance, DIP 2 = ON)
pinch zone safety	3/4" @ 13' (in proportion to object distance, DIP 2 = ON)
<b>Min. door leaf speed</b>	2°/sec
<b>Emission characteristics (IEC 60825-1)</b>	IR LASER: wavelength 905 nm; output pulse power 25 W; Class 1
<b>ELECTRICAL</b>	
<b>Supply voltage *</b>	12 – 24 VDC ±15%
<b>Power consumption</b>	< 2 W
<b>Response time</b>	
door leaf safety	max. 50 ms
pinch zone safety	max. 90 ms

<b>Test input</b>	30 VDC (max. switching voltage) low < 1 V high > 10 V (voltage threshold)
<b>Output</b>	2 electronic relays (galvanic isolation - polarity free)
max. switching voltage	42 VAC/VDC
max. switching current	100 mA
<b>PHYSICAL</b>	
<b>Dimensions</b>	5 1/8" (L) × 3 1/8" (H) × 1" (D) mounting base: D + 1/4"
<b>Material - Color</b>	PC/ASA - black, silver, or white
<b>Degree of protection</b>	IP54 (IEC 60529)
<b>LED signals</b>	red = swing-side detection green = approach-side detection yellow = error
<b>Temperature range</b>	-22 – 140 °F (if powered)
<b>Humidity</b>	0 – 95% non-condensing
<b>Vibrations</b>	< 2 G
<b>COMPLIANCE</b>	
<b>Compliance</b>	ISO 13849-1 PL "d"/ CAT2; IEC 60825-1; IEC 60950-1; IEC 61000-6-2; IEC 61000-6-3; IEC 62061 SIL 2; UL10 (black material only) – file # R39071

\* This sensor is powered by DC voltage only. If only VAC power is available, a 12V transformer paired with a rectifier must be used. Do not use a 24V transformer and rectifier as this will cause damage to the product.

Visit: [LZR-FLATSCAN.com](http://LZR-FLATSCAN.com)



**Product Questions?**  
Call BEA's Technical Service Team:  
**1.800.407.4545**